



SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT PTO-1449	DOCKET NO. 12992/91301	SERIAL NO. 10/822,774
	APPLICANT FORREST et al.	
	FILING DATE April 13, 2004	GROUP 2811

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS	SUBCLASS	FILING DATE*
Th	6,657,378	December 2, 2003	Forrest et al.			
To	6,670,213	December 30, 2003	Halls et al.			

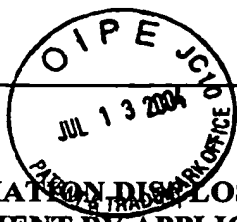
FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
TD		B. Maennig, et al., "Organic <i>p-i-n</i> solar cells", Appl. Phys. A. 79 (2004), pp. 1-14, March 5, 2004.
TB		P. Peumans, et al., "Small molecular weight organic thin-film photodetectros and solar cells", J. Appl. Phys., Vol. 93, No. 7, pp. 3693-3723.
Tb		Pradhan et al., "Molecular level control of donor/acceptor heterostructures in organic photovoltaic devices," Applied Physics Letters, Vol. 85, No. 4, pp 663-665 (July 26, 2004).

EXAMINER 	DATE CONSIDERED 10/45/05
<small>EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>	



**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
PTO-1449**

DOCKET NO.
10644/61501

SERIAL NO.
10/822-724

APPLICANT
FORREST et al.

FILING DATE
April 13, 2004

GROUP
To be assigned

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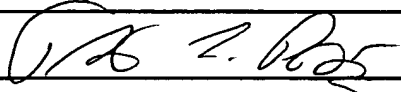
OTHER DOCUMENTS

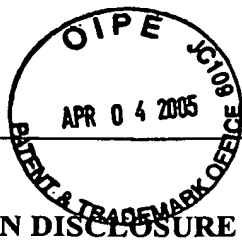
EXAMINER INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.	
TD	Peumans et al., "Small Molecular Weight Organic Thin-Film Photodetectors and Solar Cells," <i>Journal of Applied Physics</i> , Vol. 93, No. 7, pp. 3693-3723 (April 1, 2003).	
Tb	C. W. Tang, "Two-layer organic photovoltaic cell", <i>Appl. Phys. Lett.</i> , Vol. 48, No. 2, pp. 183-185 (January 1986).	
TD	A. Yakimov, et al., "High photovoltage multiple-heterojunction organic solar cells incorporating interfacial metallic nanoclusters", <i>Appl. Phys. Lett.</i> , Volume 80, Number 9, pp. 1667-1669 (March 4, 2002).	
TD	P. Peumans et al., "Very-high-efficiency double-heterostructure copper phthalocyanine/C60 photovoltaic cells", <i>Appl. Phys. Lett.</i> , Volume 79, Number 1, pp. 126-128 (2 July 2001).	
Tb	S. E. Shaheen et al., "2.5% efficient organic plastic solar cells", <i>Appl. Phys. Lett.</i> , Volume 78, Number 6, pp. 841-843 (February 5, 2001).	
TD	P. Peumans et al., "Efficient bulk heterojunction photovoltaic cells using small-molecular-weight organic thin films", <i>Nature</i> , Volume 425, pp. 158-162 (September 11, 2003).	
TD	D. Gebeyehu et al., "Bulk-heterojunction photovoltaic devices based on donor-acceptor organic small molecule blends", <i>Solar Energy Mater. Solar Cells</i> , 79, pp. 81-92 (2003).	
TD	Xue et al., "4.2% efficient organic photovoltaic cells with low series resistances", <i>Appl. Phys. Lett.</i> , Volume 84, Number 16, pp. 3013-3015 (April 19, 2004).	

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
Tb		M. Hiramoto, et al., "Three-layered organic solar cell with a photoactive interlayer of codeposited pigments", <i>Appl. Phys. Lett.</i> 58 (10), pp. 1062-1064 (March 11, 1991).
Tb		Forrest, "Ultrathin Organic Films Grown by Organic Molecular Beam Deposition and Related Techniques", <i>Chem Rev.</i> , Volume 97, No. 6, pp. 1793-1896 (1997).
Tb		Sullivan, et al., "Influence of codeposition on the performance of CuPc-C60 heterojunction photovoltaic devices", <i>Appl. Phys. Lett.</i> , Volume 84, Number 7, pp. 1210-1212 (February 16, 2004).
Tb		Burrows et al., "Relationship between electroluminescence and current transport in organic heterojunction light-emitting devices", <i>J. Appl. Phys.</i> 79(10), pp. 7991-8006 (May 15, 1996).
Tb		Xue et al., "Carrier transport in multilayer organic photodetectors: II. Effects of anode preparation", <i>J. Appl. Phys.</i> , Volume 95, No. 4, pp. 1869-1877 (February 15, 2004).
Tb		Paasch et al., "Variable range hopping as possible origin of a universal relation between conductivity and mobility in disordered organic semiconductors", <i>Synthetic Metals</i> , 132, pp. 97-104 (2002).
Tb		G Ruani et al., "Weak intrinsic charge transfer complexes: A new route for developing wide spectrum organic photovoltaic cells", <i>J. Chem Phys.</i> , Volume 116, Number 4, pp. 1713-1719 (January 22, 2002).
Tb		M. Hiramoto, et al., "p-i-n like behavior in three-layered organic solar cells having a co-deposited interlayer of pigments", <i>J. Appl. Phys.</i> , 72 (8), pp. 3781-3787, 15 October 1992.
Tb		G. Yu, et al., "Polymer Photovoltaic Cells: Enhanced efficiencies via a network of internal donor-acceptor heterojunctions", <i>Science</i> , Vol. 270, pp. 1789-1791 (December 15, 1995).
Tb		F. Padinger, et al., "Effects of postproduction treatment on plastic solar cells", <i>Adv. Funct. Mater.</i> , 13, No. 1, pp. 85-88 (January 2003).
Tb		T. Tsuzuki, et al., "The effect of fullerene doping on photoelectric conversion using titanyl phthalocyanine and a perylene pigment", <i>Solar Energy Mater. Solar Cells</i> , 61, pp. 1-8, (2000).
Tb		J. Rostalski, et al., "Monochromatic versus solar efficiencies of organic solar cells", <i>Solar Energy Mater. Solar Cells</i> , 61, pp. 87-95 (2000).
Tb		Ch. Pannemann, et al., "Electrical characterisation of phthalocyanine-fullerene photovoltaic devices" <i>Synth. Met.</i> , 121, pp. 1585-1586 (2001).
Tb		Ot. E. Sielcken, et al., "Synthesis and Aggregation Behavior of Hosts Containing Phthalocyanine and Crown Ether Subunits", <i>J. Am. Chem. Soc.</i> , 109, pp. 4261-4265 (1987).
Tb		V. Bulovic et al., "Study of localized and extended excitons in 3,4,9,10-perylene-tetracarboxylic dianhydride (PTCDA) II. Photocurrent response at low electric fields", <i>Chem. Phys.</i> 210, pp. 13-25, 1996.
Tb		B. A. Gregg et al., "Long-Range singlet energy transfer in perylene Bis(phenethylimide) films", <i>J. Phys. Chem. B</i> , 101, pp. 5362-5369, 1997.
Tb		T. Stübinger et al., "Exciton diffusion and optical interference in organic donor-acceptor photovoltaic cells", <i>J. Appl. Phys.</i> , Volume 90, Number 7, pp. 3632-3641, October 1, 2001.
Tb		H. R. Kerp and E. E. van Faassen, "Photovoltaic yield from exciton dissociation in organic dye layers", <i>Phys. Chem. Chem. Phys.</i> , 1999, 1, pp. 1761-1763.
Tb		L. A. A. Pettersson et al., "Modeling photocurrent action spectra of photovoltaic devices based on organic thin films", <i>J. Appl. Phys.</i> , Volume 86, Number 1, pp. 487-496, July 1, 1999.

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Tb		A. L. Burin et al., "Exciton migration and cathode quenching in organic light emitting diodes", J. Phys. Chem. A, 104, pp. 4704-4710, 2000.
Tb		V. E. Choong et al., "Photoluminescence quenching of Alq3 by metal deposition: A surface analytical investigation", J. Vac. Sci. Technol. A 16 (3), pp. 1838-1841, May/June 1998.
Tb		J. J. M. Halls et al., "Exciton diffusion and dissociation in a poly(p-phenylenevinylene)/C60 heterojunction photovoltaic cell", Appl. Phys. Lett. 68(22), pp. 3120-3122, May 27, 1996.
Tb		M. Theander et al., "Photoluminescence quenching at a polythiophene/C60 heterojunction", Phys. Rev. B, Volume 61, Number 19, pp. 12 957-12 963, May 15, 2000.
Tb		P. Peumans, et al., "Influence of Device Architecture and Interface Morphology on the Power Conversion Efficiency of Small Molecular Photovoltaic Cells", NCPV and Solar Program Review Meeting 2003, pp. 435-437.

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						YES	No

NON PATENT LITERATURE DOCUMENTS

EXAMINER INITIAL		AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
JB		< http://www.oksolar.com/solar_panels/unisolar_flexibles.htm >, "Uni-solar Flexible (USF) Unbreakable Solar Panels - Triple Junction", printed September 14, 2004.
JB		"UNI-POWER Solar Electric Modules Specification Sheet, Models US-64, US-42, US-32", printed from the OKSolar.com website on September 14, 2004 < http://www.oksolar.com/pdf/solar_energy_catalog/unisolar_us-64.pdf >.
JB		"Amorphous Silicon (a-Si) Solar Technology", printed from United Solar Ovonic Corp. website on September 14, 2004, < http://www.uni-solar.com/Our_Technology_a_Si.html >.
JB		S. Guha, et al., "Amorphous Silicon Alloy Photovoltaic Research Present and Future", Progress in Photovoltaics: Research and Applications, Prog. Photovolt. Res. Appl. 8, pp. 141-150 (2000).

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